

13.2920

S/745/62/000/004/005, 007
D201/D308

AUTHORS: Mamonov, Ye. I. and Sedykh, Ye. V.

TITLE: Problems of reliability of electronic automatic computers.
Some of the theoretical and practical trends of solution

SOURCE: Moscow. Inzhenerno-fizicheskiy institut. Vychislitel'naya
tekhnika, no. 4, 1962, 65-78

TEXT: The authors consider the following problems: 1. Analysis or
determination of the reliability from the available information
on reliability of separate elements constituting a system or a
sub-system. 2. The synthesis or design of a system for a required
reliability and other performance criteria (e.g. economy). 3. Sta-
tistical determination of the reliability of the most common com-
ponents (valves, resistors, capacitors) from given experimental
data. By reviewing the existing literature the authors conclude
that the most promising method of improving the reliability of
automatic computers is the use of logic and electric control with-
in the computer. With new computer elements and new physical media

Card 1/2

✓B

Problems of reliability ...

S/745/62/000/004/005/007
D201/D308

which have practically unlimited life-time and permit micro-minia- ✓
turization, it seems possible that biological principles could be
successfully used for computer design. Further trends in obtaining
the required reliability seem to be the development of self-adapt-
ing systems, based on biological systems, e.g. the development of
bionics. There are 3 figures and 21 references: 18 Soviet-bloc
and 3 non-Soviet-bloc.

Card 2/2

9,7000

S/745/62/000/004/007/007
D201/D308

AUTHORS: Letunov, Yu. P., Mamonov, Ye. I. and Chernyshev, Yu. A.

TITLE: Engineering problems of programming automation in discrete computers

SOURCE: Moscow. Inzhenerno-fizicheskiy institut. Vychislitel'naya tekhnika, no. 4, 1962, 111-123

TEXT: This is review and discussion of the following automatic programming of digital computers as given in the literature: the 'Algol' (algorithmic language) system, the 'Incol' system, and programming using common phrases. Methods of black-and-white pattern optical scanning (full-parallel, partially parallel and point-by-point with feedback), sources of error and methods of correction are discussed. Conclusion: the theoretical development of automatic programming is far ahead of the corresponding engineering conclusions and that all known methods of automation require a considerable (50 to 100 times) increase of the capacity of operational memories and a successful solution of the problem could be reached

Card 1/2

Engineering problems of ...

S/745/62/000/004/007/007
E201/D308

only by proper coordination of theoretical and engineering problems.
There are 11 figures, 2 tables and 10 references: 3 Soviet-bloc
and 7 non-Soviet-bloc. ✓B

Card 2/2

ACC NR: AT6024283

SOURCE CODE: UR/2976/66/000/005/0103/0017

AUTHOR: Mamonov, Ye. I.

ORG: none

16C
TITLE: Dependence of the data storage system structure and its basic parameters on the digital computer characteristics

SOURCE: Moscow. Vyssheye tekhnicheskoye uchilishche. Vychislitel'naya tekhnika, no. 5, 1966, 103-117

TOPIC TAGS: computer design, computer memory, digital computer system, data storage

ABSTRACT: The article examines in general terms the close interrelationship between the memory organization and access time and the efficiency of a digital computer. The efficiency with which the computer time is utilized is shown to be a function of the memory access time. A computer instruction which is executed either by macro- or microprogrammed control in turn causes a different number of operations to be performed each requiring a certain number of memory accesses. The overall computer efficiency is shown to be influenced by such factors as the speed of the memory medium, parallel or serial organization of the memory and the arithmetic unit, recirculating or random access, and the mode in which the intermediate information is transferred between the main and the file memories. The effect of utilization of

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ACC NR: AT6024283

buffer memories between the memory and the arithmetic units is analyzed. The variable word length and content-addressable memories and their influence on the computer efficiency are also included in the discussion. Orig. art. has: 8 formulas, 1 table, and 4 figures.

SUB CODE: 09/ SUBM DATE: none/ ORIG REF: 005/ OTH REF: 002

Card 2/2

BLOKHIN, M.A.; OVCHARENKO, Ye.Ya.; MYAGKOV, P.I.; SOTNIKOV, V.A.; MAMONOV,
Yu.M.; BELKINA, G.L.

Improving the accuracy of X-ray spectral analysis by a
dual channel method. Zav.lab. 31 no.4:423-426 '65.

(MIRA 18:13)

1. Konstruktorskoye byuro "TSvetmetavtomatika" i
Rostovskiy gosudarstvennyy universitet.

GLADILIN, A.A.; GLUKHOV, D.S.; YEREMIN, V.I.; ZVEREVA, N.F.; LAPIN, K.N.;
MAMONOVA, A.S.; MARTYNOV, M.K.; CHIRKOV, N.Ye.; MIKHAL'CHIKOV,
P.I.; POLYACHKIN, M.A., red.; ANTONOV, V.P., tekhn. red.

[Economy of Penza Province; a statistical collection] Narodnoe
khoziaistvo Penzenskoi oblasti; statisticheskii sbornik. Penza,
1958. 190 p. (MIRA 11:11)

1. Penzenskaya oblast'. Statisticheskoye upravleniye. (for all except
Mikhal'chikov and Antonov).

(Penza Province--Statistics)

ACCESSION NR: AP4041576

S/0078/64/009/007/1547/1551

AUTHOR: Usenova, Z. M.; Mamonova, G. F.; Yerdenbayeva, M. I.

TITLE: Selenium, tellurium and sulfur separation in sublimation

SOURCE: Zhurnal neorganicheskoy khimii, v. 9, no. 7, 1964, 1547-1551

TOPIC TAGS: selenium separation, tellurium separation, sulfur separation sublimation, vacuum sublimation

ABSTRACT: During vacuum sublimation of anodic sludge of copper smelters for Se and Te extraction, sublimates also contain sulfur. In addition, copper, silver and lead selenides, tellurides and sulfides are mechanically entrained. The subsequent difficulties of separation prompted this study. Sodium amalgam is proposed for separation. It was found that tellurium readily goes over into the solution as sodium telluride, while the respective metals form an amalgam. It has been found that the interaction of a mixture containing elementary Se, Te and S, as well as copper, lead and silver selenides, tellurides and sulfides, Se, Te and partially S go into the solution as Na_2Se , Na_2Te and Na_2S . They can be separated due to their different rate of oxidation in the air. The radius of S, Se and Te

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ACCESSION NR: AP4041576

ions are $S^{2+} = 1.74$; $Se^{2+} = 1.91$; $Te^{2+} = 2.11 \text{ \AA}$. therefore sulfides are the slowest and tellurides the fastest to oxidize. Orig. art. has: no figures, 4 formulas, 4 tables.

ASSOCIATION: Institut khimicheskikh nauk AN KazSSR (Institute of Chemical Sciences, AN KazSSR)

SUBMITTED: 19Oct63

ENCL: 00

SUB CODE: IC, GC

NO REF SOV: 011

OTHER: 000

Card 2/2

USENOVA, Z.M.; MAMONOVA, G.F.; YERDENBAYEVA, M. '.

Separate determination of the selenates of lead, zinc, cadmium and
mercury by means of sodium amalgam. Zhur.anal.khim. 19 no.9:1168-
1170 '64. (MIRA 17:10)

1. Institute of Chemical Sciences, Academy of Sciences Kazakh S.S.R.,
Alma-Ata.

YEPDENBAYEVA, M.I., MAMONOVA, G.F.

Solubility of selenites in some organic acids and their salts.
Izv. AN Kazakh. SSR. Ser. khim. nauk 14 no 1.43-46 Jan-Mar '64.
(MIRA 18:3)

MAMONOVA, I.S.; FEDOROVA, O.A.

Modernization of the heterogeneous series in the study of bacteria
of the intestinal group. Zhur.mikrobiol.epid.i immun. no.8:89 Ag '54.
(MLRA 7:9)

1. Iz Moskovskogo instituta epidemiologii i mikrobiologii i sanitarno-
epidemiologicheskoy stantsii Pervonayskogo rayona Moskvy.
(BACTERIA)

RAVICH-BIRGER, Ye.D.; BLYUMENTAL', K.V.; BORISOVA, L.V.; MAMONOVA, I.S.

Immunological indexes in children with various courses of convalescence following dysentery. Zhur.mikrobiol.epid.i immun. no.3: 49-54 Mr '55. (MLRA 8:7)

1. Iz Moskovskogo instituta epidemiologii, mikrobiologii i gigiyny i pediatricheskoy kliniki Tsentral'nogo instituta usovershenstvovaniya vrachey.

(DYSENTERY, BACILLARY, immunology,
in convalescence in child.)

(CONVALESCENCE, in various diseases,
dysentery, bacillary, immunol. indices in child.)

USSR / Human and Animal Physiology. Digestion, Stomach.

T

Abs Jour : Ref Zhur - Biol., No 15, 1958, No. 70272

Author : Mamonova, N. V.

Inst : Not given

Title : Changes in Gastric Function in Patients with Ulcerative
Disease Treated with Drug-Induced Sleep

Orig Pub : Terapevt. Arkhiv, 1958, Vol 30, No 1, 54-61

Abstract : In patients with ulcers of the stomach and duodenum (72)
under treatment with prolonged (13-15 hours per day) drug-
induced sleep (sodium amytal, chloralhydrate, sodium
bromide), pain and dyspeptic manifestations disappeared
within the first day. By the end of the course (30-35
days) the majority of patients showed either a diminution
or disappearance of the ulcer niche, and normalization of
the excretory, pepsin-forming, and evacuational functions
of the stomach, as well as a reduction in hypersecretion.

Card 1/2

84

MAMONOVA, Z.M.

Study of *Heterodera avenae* Filipjev, 1934 in the Bashkir A.S.S.R.
Trudy Gel'm. lab. 9:188-189 '59. (MIRA 13:3)
(Chishmy District--Nematoda) (Wheat--Diseases and pests)

KARDASIEWICZ, Włodzimierz; KURKUS, Jan; MAMONT, Blanka

Effectiveness of the artificial kidney of the Alwall type.
Pol. arch. med. wewn. 33 no.3:269-276 '63.

1. Z I Kliniki Chorob Wewnętrznych AM w Warszawie Kierownik:
prof. dr nauk med. A. Biernacki.
(KIDNEY, ARTIFICIAL)

MAMONT, M.S., inzh.; SEGAL, B.M., inzh.; OTCHENASH, Ye.M., inzh.

Readjustable multiple-machining attachments for machining shaped
parts made of stainless steel. Mashinostroenie no.4:27 J1-Ag
'63. (MIRA 17:2)

MAMONT, V.S.

Functional modifications in the stomach and small intestine in peptic ulcer following medicinal sleep therapy. Trudy ISGMI 20:267-270 '54.
(MLRA 10:8)

1. Kafedra rentgenologii Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta, zav. kafedroy - prof. B.M.Shtern.
(PEPTIC ULCER, therapy,
sleep ther., eff. on stomach & small intestine, x-ray)
(SLEEP, therapeutic use,
peptic ulcer, eff. on stomach & small intestine, x-ray)
(STOMACH, physiology,
eff. of sleep ther. in peptic ulcer, x-ray)
(INTESTINE, SMALL, physiology,
eff. of sleep ther. in peptic ulcer, x-ray)

MAMONT, V.S.

MAMONT, V.S.

Some functional characteristics of the gastrointestinal system in
peptic ulcer. Trudy ISGMI 20:280-287 '54. (MLBA 10:8)

1. Kafedra rentgenologii Leningradskogo sanitarno-gigiyenicheskogo
meditsinskogo instituta
(PEPTIC ULCER, physiology,
gastrointestinal system)

MAMONT, V.S.

USSR/Safety Engineering - Sanitary Engineering. Sanitation.

L

Abs Jour : Ref Zhur - Khimiya, No 2, 1957, 7014

Author : Mamont, V.S.

Inst : Leningrad Sanitary-Hygienic Medical Institute

Title : Materials on Roentgenological Studies of Functional Characteristics of Bronchial Tubes in Silicosis of Porcelain Industry Workers.

Orig Pub : Tr. Leningr. san.-gigiyen. med. in-ta, 1955, 21, 93-106

Abst : To substantiate the symptoms observed in silicosis, an attempt was made to determine procedures for a roentgenological analysis of functional changes in the bronchial tubes. The bronchokymographic investigations that were carried out made it possible to note the absence of peristaltic waves and to ascertain that in silicosis the disruption of draining functions of the bronchi is followed by accumulation of secretion in their lumen, and that occurrence of changes in the mucous membrane induces the

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USSR/Safety Engineering - Sanitary Engineering. Sanitation.

L.

Abs Jour : Ref Zhur - Khimiya, No 2, 1957, 7014

formation of peculiar broncho-ectatic deformations at the place of the branching off of larger bronchi, the causes of which are recurvature and fibrosis. Bronchograms of silicosis patients are shown and supplemented by appropriate comments.

Card 2/2

SHTERN, B.M.; MAMONT, V.S.

Use of tomography for a functional evaluation of the lungs.
Trudy LSGMI 53:159-167 '59. (MIRA 13:10)

1. Kafedra rentgenologii s meditsinskoy radiologiyey Leningradskogo
sanitarno-gigiyenicheskogo meditsinskogo instituta (zav. kafedroy -
prof. B.M. Shtern).

(LUNGS—RADIOGRAPHY)

MAMONT, V.S.

Experimental and radiographic data for the study of functional and morphological peculiarities of the bronchial tree in silicosis. Trudy LSGMI 53:183-215 '59. (MIRA 13:10)

1. Kafedra rentgenologii s meditsinskoy radiologiyey Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta (zav. kafedroy - prof. B.M. Shtern) i Kafedra gigiyeny truda s klinikoy professional'nykh zabolevaniy Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta (zav. kafedroy - prof. Ye. TS. Andreyeva-Galanina).

(LUNGS—DUST DISEASES) (BRONCHI—RADIOGRAPHY)

MAMONT, V.S.

Pulmonary tomography in silicosis and some of its possibilities for functional diagnosis. Trudy LSGMI 53:216-229 '59. (MIRA 13:10)

- 1. Kafedra rentgenologii s meditsinskoy radiologiyey Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta (zav. kafedroy - prof. B.M. Shtern).
(LUNGS—DUST DISEASES)

MAMONT, V.S.

Functional condition of the cerebrospinal fluid system following
cranial injuries as revealed by pneumoencephalographic data.

Trudy LSGMI 53:281-298 '59.

(MIRA 13:10)

1. Kafedra rentgenologii s meditsinskoy radiologiyey Leningradskogo
sanitarno-gigiyenicheskogo meditsinskogo instituta -(zav. kafedroy -
prof. B.M. Shtern).

(CEREBROSPINAL FLUID)

(ENCEPHALOGRAPHY)

(SKULL--WOUNDS AND INJURIES)

MAMONT, V.S., dotsent (Leningrad, P-3, Bol'shoy pr. d.22/24, kv.16)

X-ray study of the external function in silicosis with the aid
of tomography. Vest. rent. 1 rad. 36 no.5:33-36 S-O '61.

(MIRA 15:1)

1. Iz kafedry rentgenologii (zav. - prof. B.M.Shtern) Leningradskogo
sanitarno-gigiyenicheskogo meditsinskogo instituta (dir. - prof.
A.Ya.Ivanov).

(LUNGS—DUST DISEASES) (RADIOGRAPHY)
(RESPIRATION)

MAMONT, V.S.; SHERSTNEV, A.K.

Rare case of multiple gonit arthritis. Vestn. rent. i rad,
38 no.3:69-70 My-Je '63. (MIRA 17:7)

1. Iz rentgenovskogo otdeleniya bol'nitsy "V pamyat' 25 oktyabrya"
(glavnyy vrach I.F. Yushmanov) Leningradskogo gorodskogo otdela
zdravookhraneniya i termovizitseskoy kliniki usovershenstvovaniya
vrachey (nachalnik - prof. G.A. Smagin) Voenno-meditsinskoy
shkoly ordena Len. na akademika imeni S.M. Kirova.

MAMONTOV, A.

Charge system of supply accounting. Obshchestv. pit. no. 7:61-
62 J1 '58. (MIRA 11:7)

1. Starshiy bukhgalter bufeta stantsii Semenov.
(Accounting)

BOGOMOLOV, M.S., inzh.; MAMONTOV, A.A., inzh.

Operation and repair of boring machinery. Gor.zhur. no.2:55-57
F '64. (MIRA 17:4)

1. VostNIGRI, Novokuznetsk.

BUKHTIN, V.S., insh.; BOGOMOLOV, M.S., insh.; MAMONTOV, A.A., insh.

Ways of improving repair operations at Gornaya Shoriya mines.
Gor. zhur. no.11:48-50 N '64. (MIRA 18:2)

1. VostNIORI, Novokuznetsk.

MAMONTOV, A. K.[deceased]

Clayey gypsum. Trudy FTI Turk. fil. AN SSSR no.2:28-36 '50.
(MIRA 16:1)

(Turkmenistan—Building materials)

L 8541-65 ENT(m) DIAAP/SSD/AFML/ESD(t)

ACCESSION NR: AR4044033

5/0058/63/000/011/V031/V07

SOURCE: Ref. zh. Fizika, Abs. 11V225

AUTHOR: Sokolov, L. S.; Mamontov, A. P.

TITLE: The question of interpretation of elastic scattering of deuterons with energy of 10.3 Mev on He⁴

CITED SOURCE: Izv. Tomskogo politekhn. in-ta, v. 122, 1962, 11-13

TOPIC TAGS: elastic scattering, deuteron scattering, parameter

TRANSLATION: The elastic-scattering cross section of deuterons with energy of 10.3 Mev on He⁴ is calculated from an optical model with a rectangular complex potential. The agreement between calculation and experiment is considerably worse for the region of large angles than for small angles. The best correlation between the calculation and experimental curves for the entire range of angles is obtained for $V_0 = 24.1$ Mev, $W_0 = 5$ Mev (when $r_0 = 1.5 \cdot 10^{-12}$ cm). Comparison of these parameters of the interaction potential with the corresponding parameters for proton and neutron

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ACCESSION NR: AR4044033

scattering makes it possible to assume that only one of the nucleons of the deuteron interacts with a nucleus, while the second nucleon, in all probability, passes outside the range of nuclear forces. See also: Journal of Abstracts, Physics, 1963, 8V196

SUB CODE: NP

ENCL: 00

Card 2/2

BERZIN, A.K.; KOLCHIN, A.Ye.; MAMONTOV, A.P.

Angular distribution of photoneutrons from Ta^{181} and Bi^{209} .
Izv. TPI 122:19-20 '62. (MIRA 17:9)

MAYRANOVSKAYA, E.F. MAMONTOV, A.M. GOLUBOVA, L.V.

Polarographic studies of the agglutination of lung cancer cells.
onk. 10 no.3-4: 1984. MIPA 1718.

1. Iz virusologicheskoy laboratorii. - prof. V.V.
Gorodilova. - Khimicheskaya i biologicheskaya meditsina. - doklady med.
nauk M.D. Gerasimov. - Odesk. onkologicheskii institut imeni
imeni Gertsena. - 1984. A.N. Medvedev. Adressatov: 1.
Moskva, D-28. 2. V. R. 1984. 3. Odesk. onkologicheskii institut imeni Gerasimova.

MAMONTOV, A.S.

Complications and side reactions in bronchoscopy and their prevention. Sov.med. 38 no.12:37-42 D '65.

(MIRA 18:12)

1. Otdeleniye torakal'noy khirurgii (zav. - prof. N.D.Garin)
Nauchno-issledovatel'skogo onkologicheskogo instituta imeni
P.A.Gertsena (direktor - prof. A.N.Novikov), Moscow.

L 40023-65 EWT(d)/EWP(v)/EWP(k)/EWP(h)/EWP(l) Po-4/Pq-4/Pf-4/Pg-4/Pk-4/Pl-4
IJP(c) GS/BC

ACCESSION NR: AT5003915

S/0000/64/000/000/0188/0201

AUTHOR: Mamontov, A. Ye. (deceased); Shnaydman, M. A.

TITLE: Simulation of a certain class of self-adaptive automatic-control systems subject to noise

SOURCE: Vsesoyuznaya konferentsiya - seminar po teorii i metodam matematicheskogo modelirovaniya. 3d, 1962. Vychislitel'naya tekhnika v upravlenii (Computer technology in control engineering); sbornik trudov konferentsii. Moscow, Izd-vo Nauka, 1964, 188-201.

TOPIC TAGS: self adaptive system, simulation, correlator, automatic control system, noise immunity

ABSTRACT: The article deals with self-adaptive systems in which the quality of the output of the main system is controlled by means of a model operating in parallel with the main system. In the case of a system subject to random noise, a correlator is necessary, and the authors describe an electronic multichannel correlator developed for the purpose, which can be used either for simulation or

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as a real element in an automatic control system. The operating principle and the main elements of the correlator are described in detail. Theoretical and experimental tests of the correlator have shown that it has the following characteristics: Number of points of the correlation function -- 21; maximum delay time -- 200 sec; maximum to minimum frequency ratio -- 5; maximum input signal frequency range -- 0--100 cps; error in calculation of the correlation function for a sinusoid -- 5--7%; approximate dimensions (without power supply) -- 700 x 500 x 400 mm; range of input and output signals -- 1-100 V. Orig. art. has: 9 figures and 33 formulas.

ASSOCIATION: None

SUBMITTED: 17Aug64

ENCL: 00

SUB CODE: DP

NR REF SOV: 003

OTHER: 002

Card ^{hp} 2/2

GOLOVANOV, I.M.; MANSUROV, M.; MAMONTOV, B.V.; YESIMOV, B.O.

Bismuth mineralization in magnesium magnetite skarns in one
of the ore manifestations in the Kurama Range. Uzb. geo. zhur.
9 no.6:10-17 '65 (MIRA 19:1)

1. Institut geologii i geofiziki imeni Abdullayeva AN UzSSR.
Submitted March 19, 1965.

MAMONTOV, G.P.

Case of prolonged apnoea from the use of diplotsin. Akt. vop.
obezbol. no.2:127-130 '59. (MIRA 14:5)

1. Iz 3-y kafedry khirurgii (zaveduyushchiy zaslyzhennyy dejatel'
nauki prof. B.S.Rozanov) Tsentral'nogo instituta usovershenstvovaniya
vrachey i khirurgicheskoy kliniki bol'nitsy im. S.P.Botkina (glavnyy
vrach prof. A.N.Shabanov).
(APNOEA) (DIPLACIN)

MAMONTOV, G.P.

Blood vessels in a scar of the left cardiac ventricle; experimental
study. Khirurgia 35 no.9:10-15 '59. (MIRA 13:12)
(HEART--WOUNDS AND INJURIES)

MAMONTOV, Igor' Ivanovich; GALKIN, Ya.G., nauchnyy redaktor; GURVICH, E.A.,
redaktor; LYUDKOVSKAYA, N.I., tekhnicheskiy redaktor

[Our experience in manufacturing reinforced concrete articles;
work practice of the Leningrad "Barricade" plant] Nash opyt proiz-
vodstva zhelezobetonnykh izdelii; iz praktiki raboty leningradskogo
zavoda "Barrikada." Moskva, Gos. izd-vo lit-ry po stroit materialam,
1955. 66 p. (MLBA 9:7)

1. Glavnyy inzhener zavoda zhelezobetonnykh izdeliy "Barrikada" (for
(Reinforced concrete construction) Mamontov)

MAMONTOV, I.; GUTSKOV, Ye., inzhener

Vibration consolidation with compressed air in forming stiff
concrete products. Stroi.mat., izdel. i konstr. 1 no.7:8-11
Jl'55. (MLBA 8:11)

1. Glavnyy inzhener zavod "Barrikada" (for Mamontov)
(Precast concrete)

MAMONTOV, I. I.

Manufacture of hollow blocks for inter-story floors. Mekh. trud.
rab. 9 no.7:10-13 J1 '55. (MIRA 8:9)

1. Glavnyy inzhener zavoda "Barrikada"
(Floors, Concrete)

MAMONTOV, I.

A factory is built of precast reinforced concrete. Stroi.mat.,
izdel.i konstr. 2 no.1:7 Ja '56. (MIRA 9:5)
(Leningrad--Concrete plants)

97 - 1 - 1/10

AUTHOR: MAMONTOV, I.I. and KISELEV, M.B., (Engineers).

TITLE: The Manufacture of Prestressed Reinforced Concrete Constructions
in the BARRIKADA Factory (Proizvodstvo predvaritel'no
napryazhennykh zhelezobetonnykh konstruksiy na zavode
'БАРРИКАДА').

PERIODICAL: Beton i Zhelezobeton, 1957, No. 1., pp. 5 - 7, (U.S.S.R.)

ABSTRACT: The collective of the Leningrad factory "Barrikada" designed and constructed an installation for prestressing reinforcement according to the E. G. Patts (Candidate of Technical Sciences) method. Wire-stressing was carried out by means of a calibrated winch. Each wire was stressed separately. The wires were fixed by cylindrical cones (on both ends) and these, in turn, were fitted into corresponding conical rings. A floor slab with 2 voids, 626 x 99.5 x 22 cm. reinforced with prestressed wires was made according to this method. It is pointed out that it is of outmost necessity to use reinforcement in order to provide greater adhesion. This can be achieved by roughening the surface according to the E.G. Patts method. Prestressing should be carried out in separate workshops and delivered to the

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TITLE:

The Manufacture of Prestressed Reinforced Concrete Constructions in the BARRIKADA Factory, (Proizvodstvo predvaritel'no napryazhennykh zhelezobetonnykh konstrukttsii na zavode "Баррикада".)

concreting yards ready for use. Further experiments were carried out concerning the production of ribbed slabs КРЖ-3 and РП-1 (dimensions 595 x 149 x 26 cm) with prestressed reinforcement by using ordinary metal frameworks made from channels by using discs with conical openings and wedges for stressing (fig. 2.) Equipment for stressing (fig. 1) utilises a suspended weight on the long arm of the lever. Reinforcement for the above slabs consisted of sixteen 4 mm wires or twelve 5 mm wires (made of steel ПМТУ-4987-55) with an ultimate strength of 15.000 kg/cm². The required weight for prestressing four 4 mm diameter wires is 5 tons which corresponds to 65% of the ultimate strength. The conical wedges have 2 symmetrical grooves along the wedges. The latter are made of steel St. 20 (ГОСТ 1050 - 52). The weight necessary for stressing 16 wires is approx. 20 tons. Upon the completion of stressing the form is lifted by a crane (5 ton capacity) and deposited on a vibrating table. Here it is filled with concrete mix type 250. The time of vibration is 5 - 7 minutes. Steam curing is carried out for 16 hours, the maximum temperature being 80° C for 8 hours.

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97 - 1 - 2/10

TITLE: The Manufacture of Prestressed Reinforced Concrete Constructions in the BARRIKADA Factory, (Proizvodstvo predvaritel'no napryazhennykh zhelezobetonnykh konstruktsii na zavode "БАРРИКАДА".)

Output is 300 m² for 24 hours. Experiments with hollow floor slabs (626 cm long) were carried out in collaboration with S. G. Makoveev (associate of the Leningrad Institute of Civil Engineering) A group of technicians in the "Barrikada" factory are working on the production of units using power calibration and prestressing of steel ~~to~~ 5781 - 53 (fig. 4). A 20% saving in steel was achieved. 3 figures and one photograph are given.

ASSOCIATION: ---

PRESENTED BY: ---

SUBMITTED: ---

AVAILABLE: Library of Congress

Card 3/3

MAMONTOV
MAMONTOV, I.I., inzh.; KISELEV, M.V., inzh.

Experience in manufacturing reinforced concrete products at the
"Barrikada" plant in Leningrad. Bet.i zhel.-bet. no.7:267-271
Jl '57. (MIRA 10:11)
(Leningrad--Concrete plants) (Precast concrete)

MAMONTOV, I. I.

KOTSANDI, I.A., inzhener; MAMONTOV, I.I., inzhener; SRYBNIK, D.A., inzhener.

New machine for welding reinforcing fabrics. Nov.tekh.i pered.op.v
stroi. vol.19:18-21 Ag '57. (MIRA 10:10)

(Electric welding) (Reinforced concrete)

MAMONTOV, Igor' Ivanovich,; KISELEV, Mikhail Vital'evich,; SMIRNOV, N.A.,
inzh., nauchnyy red.; ROTENBERG, A.S., red. izd-va,; PUL'KINA,
Ye.A., tekhn. red.

[Efficient methods for making reinforced concrete construction
elements; practices in Leningrad] Ratsional'nye metody izgotovleniia
zhelezobetonnykh konstrukttsii; iz opyta Leningrada. Leningrad, Gos.
izd-vo lit-ry po stroit., arkhitekt. i stroit. materialam, 1958. 81 p.
(MIRA 11:11)

(Precast concrete)

MAMONTOV, I.I.; PLAKIDA, M.A., kand. tekhn. nauk.

New methods for preventive stressing of reinforced concrete products. *Biul. tekhn. inform.* 4 no.8:10-14 Ag '58. (MIRA 11:8)

1. Glavnyy inzhener zavoda "Barrikada." (for Mamontov).
(Prestressed concrete)

07.03.5-10 14

AUTHOR: ~~Mamonov, I.I.~~ Engineer, and Makovskiy, I.I., Candidate of Technical Sciences

TITLE: Manufacture of Prestressed Reinforced Concrete Floor Slabs with Description of Stress Gauging and Tensioning of Reinforcement (Izgotovleniye predvaritel'no napryazhennykh nastilov s sovmeshcheniyem operatsiy po kalibrovke i natyazhivaniyu armatury.)

PERIODICAL: Beton i Zhelezobeton, 1958, No. 5, USSR Pp 194-195.

ABSTRACT: The article deals with tensioned hot rolled reinforcement of standard profile from steel Mark St. 5 or 25 G2S strengthened by stress calibration. The reinforcement is tensioned in a special plant and then tensioned against specially designed steel forms (in case of continuous production) or tensioned with special anchors (in the case of individual casting.) For checking the tensioning of a greater number of steel bars after stress calibration a special balancing mechanism is used. This balancing process is necessary to make certain of equality of stress in individual bars e.g. a six metre long bar that has various slight deformations could differ from a perfectly straight bar by up to 10 m. The Leningrad factory for reinforced concrete

Card 1/2

97-58-5-10, 11.

Manufacture of Prestressed Reinforced Concrete Floor Slabs with Description
of Stress Gauging and Tensioning of Reinforcement.

products "BARRIKADA" turns out floor slabs with two millows Mark BP-2 reinforced with hot rolled steel reinforcement of standard profile. The reinforcement in these products was stress calibrated and tensioned according to the described method. Figure 1 illustrates the plant for simultaneous stress calibration and tensioning of stress reinforcement. The tensioning of the above mentioned slabs was carried out to a limit of 50 tons by means of a winding jack through a reduction powered by an electric motor. The tensioning is controlled by a manometer. The plant tensions simultaneously three 14^{mm} diameter bars. The process is as follows: - Reinforcing bars are anchored to one side of the framework and tensioned at that stage and the other side of the framework is removed. Then the second end of the framework with anchoring plates is fixed to partially tensioned bars and tensioned further to the required stress. The magnitude of stress should not be more than 0.9 of the value of "sectional contraction" for the type of steel used. There is one figure.

Card 2

1. Reinforced concrete--Production 2. Reinforced concrete--Properties

MAMONTOV, I.I., inzh.

Experience of the "Barrikada" plant in decreasing production costs
of precast reinforced concrete elements. Bui. tekhn. inform. 4
no. 6:10-12 Je '58. (MIRA 11:7)

(Construction industry--Costs)
(Precast concrete)

PANOV, N.K., inzh.; MAMONTOV, I.I., inzh.

Using vibration methods in making reinforced concrete pipes
in dismountable metal forms. Suggested by N.K.Panov, I.I.
Mamontov. Rats.i izobr.predl.v stroi. no.8:27-31 '58.
(MIRA 13:3)

1. Po materialam Nauchno-tehnicheskogo obshchestva promyshlen-
nosti stroitel'nykh materialov Leningradskogo oblastnogo
upravleniya.
(Vibrators) (Pipe, Concrete)

MAMONTOV, I.

Electrothermal method for stressing reinforcements. Stroitel' no.1:9
Ja '59. (MIRA 12:3)

1. Glavnyy inzhener zavoda zhelezobetonnykh izdeliy "Barrikada."
(Prestressed concrete)

MAMONTOV, I.I.

Efficient design of vibration unit. Bezop.truda v prom. 3 no.8:29-30
Ag '59. (MIRA 12:11)

1. Glavnyy inzhener zavoda zhelezobetonnykh izdeliy "Barrikada."
(Vibrators)

AUTHORS: Mamontov, I. I., Engineer, and Makoveysv, S. G. SOV/97-59-3-12/15
Candidate of Technical Sciences

TITLE: Floor Slabs with two Hollows Reinforced in the Bottom
Corners

PERIODICAL: Beton i zhelezobeton, 1959, Nr 3, p 137 (USSR)

ABSTRACT: These hollow slabs have reinforcement of periodic section 14-24 mm in diameter of steel mark St.3 and 35 GS, or of steel mark 30KhG2S. The remaining reinforcement of the slab consists of welded mesh made of 6-8 mm diameter bars 600-1000 mm long (see Fig 1). Tests were carried out in the Leningrad Factory of Reinforced Concrete Products "Barrikada" to find a means of simplifying this reinforcement. Instead of three 14 mm diameter bottom bars, two 18 mm diameter bars were substituted in the corners, and instead of eight 4 mm diameter wire in the bottom mesh, mesh consisting of five wires of the same diameter was used (see Fig 2). Tests carried out with this simplified reinforcement of the slabs were successful. Simplification is

Card 1/2

Floor Slabs with two Hollows Reinforced in the Bottom Corners

SOV/97-59-3-12/15

also advocated for hollow slab consisting of 4 hollows.
There are 2 figures.

Card 2/2

GORAYAYNOV, K.E., doktor tekhn.nauk, prof.; ~~MAMONTOV~~, I.I., inzh.; TRINKER,
B.D., kand. tekhn.nauk; DOLITSKIY, I.I., kand. tekhn.nauk

Unit for vibrostamping reinforced concrete products made of stiff
concrete mixes. Bet. 1 zhel.-bet. no.11:489-49? N '60. (MIRA 13:11)
(Vibrators) (Reinforced concrete)

MAMONTOV, Igor' Ivanovich; SMIRNOV, N.A., prof., red.; LEVCHENKO, Ya.V.,
red.; VASIL'YEV, Yu.A., red. izd-va; BELOGUROVA, I.A., tekhn.
red.

[Overall mechanization and automation at reinforced concrete
products plants in Leningrad] Kompleksnaia mekhanizatsiia i
avtomatizatsiia na zavodakh zhelezobetonnykh izdelii g. Le-
ningrada. Pod obshchei red. N.A.Smirnova. Leningrad, Lenin-
gr. dom nauchno-tekhn.propagandy, 1961. 20 p. (Bibliotekhka
stroitel'ia po mekhanizatsii i avtomatizatsii stroitel'stva,
no.4) (MIRA 15:8)

(Leningrad--Concrete plants)

MAMONTOV, Igor' Ivanovich; SMIRNOV , N.A., prof., red.; VASIL'YEV, Yu.A., red.izd-va; GVITS, V.L., tekhn. red.

[Over-all mechanization of the production of hollow cylindrical reinforced concrete products; from the experience of "Barrikada" Factory] Kompleksnaia mekhanizatsiia proizvodstva pustotnykh tsilindricheskikh zhelezobetonnykh izdelii; opyt zavoda "Barrikada." Pod obshchei red. N.A.Smirnova. Leningrad, Leningr. dom nauchno-tekhn. propagandy, 1961. 25 p. (Bibliotekha stroitel'ia po mekhanizatsii i avtomatizatsii stroitel'stva, no.5) (MIRA 15:8)
(Pipe, Concrete)

MAMONTOV, I.I., inzh.; MARAKOV, N.A., inzh.

Manufacture of long reinforced concrete pipes in molds by a
vibration and pressure method. Bet.i zhel.-bet. no.8:354-357
Ag '61. (MIRA 14:8)

(Pipe, Concrete)

MAMONTOV, I.

We are improving the manufacture of precast reinforced concrete.
Na stroi. Ros. no.10:28-30 0 '61. (MIRA 14:11)

1. Glavnyy inzhener Leningradskogo zavoda "Barrikada".
(Leningrad--Precast concrete)

SAVINOV, G.A., doktor tekhn.nauk; BRAUDE, F.G., inzh.; MAMONTOV, I.I., inzh;
OSMAKOV, S.A., kand.tekhn.nauk

Ways of improving vibration tables for molding reinforced concrete
products. Trudy NII ZHB no.33:126-141 '64.

(MIRA 18:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut gidrotekhnicheskikh i sanitarno-tekhnicheskikh rabot.

MANONIGV, Igor' Ivanovich

[A plant with perfect organization of production; from the work practices of the "barrikada" plant in Leningrad. Zavod vysokoi kul'tury; iz opyta raboty zavoda "barrikada" v Leningrade. Leningrad, Stroiizdat, 1965. 86 p.

(MIRA 19:1)

MAMONTOV, I.M.; KONDAKOV, N.I.; ARKHIPOV, G.Ye.; SERGEYEV, A.S.,
kand. sel'khoz. nauk; PETROV, Ya.P.; GUR'YEV, D.G.;
STUPALOV, Yu.G.; FIL'CHENKO, R.D., red.; PETROV, G.P.,
tekhn. red.

[Measures for protecting farm plants, fruit and berry
plantations, and forests against pests and diseases in the
Chuvash A.S.S.R. in 1962] Meropriiatiia po zashchite sel'sko-
khoziaistvennykh rastenii, plodovo-lagodnykh nasazhdenii i
lesov ot vreditel'ei i boleznei po Chuvashskoi ASSR za 1962.
74 p. (MIRA 16:4)

1. Chuvash A.S.S.R. Ministerstvo proizvodstva i zagotovok
sel'skokhozyaystvennykh produktov. Respublikanskaya stantsiya
po zashchite rasteniy.

(Chuvashia—Plants, Protection of)

FEDIN, K.A.; BAYEVSKIY, D.A., doktor istor.nauk; VOLKOV, N.S., doktor istor.nauk; GENKINA, E.B., doktor istor.nauk; KUCHKIN, A.P., doktor istor.nauk; KOSTOMAROV, G.D., prof.; DADYKIN, R.P., kand. istor.nauk; ROGACHEVSKAYA, L.S., kand.istor.nauk; SHABALIN, B.I., kand.istor.nauk; MAMONTOV, I.S.; PIROGOV, V.K., преподаvatel'

Let's write the history of our plants and factories; a letter to the editors. Sov.profssoiuzy 16 no.7:62-63 Ap '60.

(MIRA 13:4)

1. Sekretar' Soyuza pisateley SSSR (for Fedin). 2. Glavnyy redaktor izd-va "Moskovskiy rabochiy" (for Mamontov).
(Factories)

M. P. Mamontov, I. V.
AUTOMATIC CONTROL AND PROTECTION

"Automatic Switching of Spare Transformer in Accordance with the Load" by Technician I. V. Mamontov. Energetik, No. 6, June 1957, Pages 23 -- 24.

Description of a relay circuit, based on the incremental curves of the individual transformers, in which the second transformer is automatically switched in the circuit whenever the incremental rate indicates that it is more economical to do so.

Card 1/1

- 4 -

MAMONTOV, I.V., Cand. Med. Sci., -- (diss) "Sluggishly present forms of rheu-
mocardites and the dynamics of certain indexes of additional methods of
investigation when treating them," Baku, 1961, 23 pp (Azerbaijani State Medical
Institute im. N. Narimanov), 200 copies (KL*Supp 9-61, 191)

MAMONTOV, K.A.

Mamonov, K. A. Ocherednye i sledy v laboratorii
ustroystva kreniminy. Izv. Vuzov. Matematika.
Inzhiniring. Moscow: Pub. House "Soviet Science".
1953. 71 pp.

MAMONTOV, K.A.

**Experimental investigation of pressure filters for removing iron
from water. Vod.i san.tekh.no.3:21-23 Mr '56. (MLRA 9:7)
(Filters and filtering) (Water--Purification)**

MAMONTOV, K.A.

Pressure installations for the removal of iron from water.
Gaz.prom. 4 no.1:44-46 Ja '59. (MIRA 12:1)
(Water--Purification) (Iron)

~~MAMONTOV, K. A.~~

Cand Tech Sci - (diss) "Experimental study of the performance of pressure non-settling installations for freeing water of iron." Leningrad, 1961. 18 pp; (Ministry of Higher and Secondary Specialist Education RSFSR, Leningrad Order of Labor Red Banner Construction Engineering Inst); 200 copies; price not given; (KL, 5-61 sup, 191)

MAMONTOV, Konstantin Alekseyevich, kand. tekhn. nauk, dots.

[Removing iron from water in storage installations]
Obezhelezivanie vody v napornykh ustanovkakh Izd.2.,
perer. Moskva, Izd-vo lit-ry po stroitel'stvu
"Stroiizdat," 1964. 93 p. (MIRA 17:7)

MAMONTOV, K. Ya.
MAMONTOV, K. Ya., dots.

New flow sheet for the processing of chicory. Trudy MTIPP no. 10:104-112
'57. (MIRA 10:12)

(Chicory)

MAMONTOVA, Lidiya Nikolayevna; ROMYANSEVA, N.S., red.

[Effectiveness of the fertilization of fishponds]
Effectivnost' udobreniia rybovodnykh prudov. Mo-
skva, Fishchevaia promyshlennost', 1964. 19 p.
(MIRA 17:9)

S/135/63/000/002/013/015
A006/A101

2300

2109

AUTHORS: Zaytsev, K. I., Candidate of Technical Sciences, Stolyarenko, V. D.,
Engineer, Mamontov, L. V., Technician

TITLE: Automatic machine for welding vinylplastics

PERIODICAL: Svarochnoye proizvodstvo, no. 2, 1963, 38

TEXT: Considering the low efficiency and labor consuming operations in welding plastic sheets with the use of rods, a machine was designed at VNIIST, for welding rigid thermoplastic sheets without rods. Thin sheets are overlap-welded without preparation; the edges of sheets over 2 mm thick are beveled at an angle of $65 - 70^{\circ}$. Hot air is supplied to the gap between the sheets at the overlap spot; as the surface of the sections to be welded softens to viscous state, the sheets are compressed and connected. The machine is intended to produce straight seams on 1.5 - 2.0 mm thick sheets. The welding speed depends upon the heat conditions, the sheet thickness, the overlap and the pressure, and may vary between 9.5 to 63.0 m/h. The weld joints show satisfactory strength. Their tightness corresponds to that of the base material. There is 1 figure.

ASSOCIATION: VNIIST

Card 1/1

YANONTOV, F.A.

36716. Ballisticheskoye Ispytaniye Oruzhiya. Izv. Vuzov. Ser. Inzh. Nauk, 1949, s 110-53.

SO: Ietopis' Zhurnal'naya. Izd. y Vol. 50, Moskva, 1949

MAYONTOV, M. A.

Some cases of gas flow through pipes, fittings and circulating gas systems
Moskva, Gos. izd-vo obor. promyshl., 1951. 490 p. (52-35307)

0168.M34

MAMONTOV, M.A., prof., doktor tekhn.nauk

Problems in the theory of dimensionality. Nauch.dokl.vys.
shkoly; mash.i prib. no.1:19-24 ' 58. (MIRA 12:1)

1. Predstavleno Tul'skim mekhanicheskim institutom.
(Dimensional analysis)

SOV/123-59-15-62111

Translation from: Referativnyy zhurnal. Mashinostroyeniye, 1959, Nr 15, p 422 (USSR)

AUTHOR: Mamontov, M.A.

TITLE: Variants of Basic Functions of the Gas Flow in the Trans-Piston Space

PERIODICAL: Tr. Tul'sk. mekhan. in-ta, 1958, Nr 8, pp 96 - 105

ABSTRACT. Assuming as the basic function of the process the path of the elements of the trans-piston flow, the author derives the equations of the gas flow in the trans-piston space (making use of the Euler coordinates and the Lagrange coordinates) for the general case of gas parameters which vary along the trans-piston space at the initial moment of the process. The derived equation differs from the Kibel' and Frankel equation by the last term, because of which the author concludes that the Kibel' and Frankel formulae are inaccurate. In the particular case of the gas parameters constant at the initial moment of the process along the length of the trans-piston space, the author's equation agrees with the Kibel' and Frankel equation as well as with the Lamb formula.

M.V.I.

Card 1/1

MAMONTOV, Mikhail Alekseyevich; ANTONOVA, S.D., red. izd-va; ORESHKINA,
V.I., tekhn. red.

[Problems of the thermodynamics of a body of variable mass]
Voprosy termodinamiki tela peremennoi massy. Moskva, Gos.
nauchno-tekhn.izd-vo Oborongiz, 1961. 54 p. (MIRA 15:2)
(Thermodynamics)

MAMONTOV, N.

Use of small-scale mechanization reduced production costs.
Muk.-elev. prom. 20 no.4:26 Ap '54. (MLRA 7:7)

1. Slavutskiy tolevyy zavod Zagotserno, Kamenets-Podol'skoy
oblasti.
(Roofing)

L 11658-66 EWT(d)/FSS-2

ACC NR: AP6000791

SOURCE CODE: UR/0106/65/000/009/0050/0058

AUTHOR: Cherkasskiy, Ye. D.; Mamontov, N. F.; Ustinov, G. N.

55

ORG: none

TITLE: Method and equipment for data transmission over a simplex telegraph channel

SOURCE: Elektrosvyaz, no. 9, 1965, 50-58

TOPIC TAGS: data transmission, communication channel

ABSTRACT: A method is suggested for enhancing the fidelity of information transmitted over a simplex telegraph channel and intended for feeding into a computer or other automatic device. In addition to 5-element character combinations that carry useful information, these signals also transmit: start-stop signals, an error-detecting symbol combination, and a signal time-interval combination which ensures the time required for forming an ARQ signal at the receiver end whenever an error is detected. In the latter case, a feedback signal breaks the channel which serves as an RQ signal (for the transmitting end). These provisions materially cut

Card 1/2

UDC: 621.391.179

L 11658-66

ACC NR: AP6000791

down the rate of transmission (from 400 to 133 characters per min for a 50-baud system); however, this loss of speed is claimed to be offset by the higher fidelity. Check symbols formed along Hamming-code rules are suggested for protecting the information combinations. Such a code permits detecting $2^n - 2^m$ errors out of $2^n - 1$, where n is the total number of symbols, m is the number of information symbols, and $n - m$ is the number of check symbols (in the above example, 992 errors out of 1023 will be detected; of 31 nondetectable, 18 are quadruple, 8 sextuple, and 5 octuple errors). The probability of occurrence of nondetectable errors is evaluated. Correcting abilities of the above code, an optimal Slepian's code, and a "two out of three" code are compared. Some parts of the above system were verified experimentally. Orig. art. has: 4 figures, 11 formulas, and 4 tables.

SUB CODE: 17 / SUBM DATE: 13Oct64 / ORIG REF: 001 / OTH REF: 003

Card 2/2

MAMONTOV, N.I.

Course of labor with macerated fetus. Akush.i gin. no.1:56-58 Ja-F '54.
(MLRA 7:6)

1. Iz rodil'nogo doma g. Kineshmy.
(Labor, Complicated)

MAMONTOV, N.I. Cand Med Sci -- (diss) "Instruction to women in rural obstetrical institutions in the psychological prophylactic preparation for giving birth". Ivanovo, 1957. 16 pp 19 cm. (Ivanov. State Med Inst) 120 copies (KL, 9-57, 103)

Conducting psychoprophylactic preparation of women for childbirth in rural obstetrical institutions

- 4 -

MAMONTOV, N.I., kand.med.nauk; CHERNOVA, V.P.

Physiological loss of blood in the first two hours after labor.
Akush.i gin. 36 no.5:48-50 S-O '60. (MIRA 13:11)

1. Iz rodil'nogo doma (glavnyy vrash N.A. Kokurina) Kineshny.
(PUERPERIUM) (HEMORRHAGE)

MAMONTOV, N. P.

"Investigation of Beams Reinforced With Used Prestressed Cable Strands." Cand
Tech Sci, L'vov Polytechnic Inst, Min Higher Education USSR, L'vov, 1955. (KL,
No 16, Apr 55)

SO: Sum. No. 704, 2 Nov 55 - Survey of Scientific and Technical Dissertations Defended
at USSR Higher Educational Institutions (16).

AFANAS'EV, A.N.; MAMONTOV, H.V.

Wavemeter rod in a fixed base. Meteor. i gidrol. no.8:52 Ag '56.
(Waves) (MLRA 9:11)

KRASIKOV, P.N.; MAMONTOV, N.V.

Size determination of particles which are isomorphic in relation to ice; the particles are to be used in experiments on states of aggregation of water. Trudy GGO no.67:144-153 '57. (MIRA 11:4)

(Particle size determination)
(Atmospheric nucleation) (Clouds)

Mamontov, N.V.

Some characteristics of the vertical zonality of precipitation
in the Gornyy Altai. Trudy NIIA no.26:72-84 '64. (MIA 1281)

MAMONTOV, N.V.

Distribution curves of relative humidity in the southeast
of the West Siberian Plain. Trudy NIIAK no.33:57-68 '65.

Surfaces of distributions of temperature and relative
humidity. Ibid.:69-79 (MIRA 18:12)

621.311.161.018.33
533. CALCULATION OF TRANSIENT PROCESSES IN
COMPLICATED LINEAR CIRCUITS BY MEANS OF FOURIER'S
INTEGRAL. O.V. Mamontov.

Elektrichestvo, 1958, No. 5, 4-10, in Russian.

A technique intended for power-system networks. While the method may be regarded as analytical in principle, it calls for an a.c. network analyzer and special tables for numerical integration. Since the Fourier integral cannot be applied directly to harmonic functions, a simple preliminary transformation of these functions is required. The method is then explained in detail and its application to 3-ph. systems affected by asymmetrical faults detailed. The essential task of the network analyzer is the determination of the real and imaginary frequency characteristics. These have to be graphed and divided into frequency bands for which tables for approximate integration have been prepared. The method of preparing these tables is also explained.

B.F. Kraus

105-7-23/29

AUTHOR: MAMONTOV, O.V., cand.tech.so., OSKOLKOV, K.N., eng.
TITLE: On the Method of "Recalculating for the Purpose of Attaining a Stabilized Mode of Operation". (O metode "privedeniya k ustanovivshemusya rezhimu", Russian)
Electromechanical Time Indicator. (Elektromekhanicheskiy otmetchik vremeni, Russian)
PERIODICAL: Elektrichestvo, 1957, Nr 7, pp 87-89 (U.S.S.R.)
ABSTRACT: 1.) A criticism of the work by E.A. MEYEROVICH "Calculation of Transition Processes in Complicated Electric Circuits", published in Izvestiia Akad.Nauk SSSR, Otdel.Tekhn., 1950, Nr 10. It is shown that this method is of no practical value. This is proved on the basis of an example. (With 1 Illustration)
2.) Following a suggestion made by the author an electro-mechanical time indicator was built, which makes it possible to record indications of time within definite periods on the oscillogram without using one of the vibrators of the oscillograph. The device is described. (With 1 Illustration).

Card 1/2

105-7-13/20

On the Method of "Recalculating for the Purpose of Attaining
a Stabilized Mode of Operation".
Electromechanical Time Indicator.

ASSOCIATION: Laboratory for Control Machines and Control Systems of the
Academy of Science of the U.S.S.R. (Laboratoriya uprav-
lyayushchikh mashin i sistem AN SSSR).
Moscow Underground Railway "Lenin". (Moskovskiy metropoliten
im.V.I.Lenina).

PRESENTED BY:
SUBMITTED:
AVAILABLE: Library of Congress

Card 2/2

MAMONTOV, O.V., kand. tekhn. nauk.

Electronic differential-phase high-frequency protection equipped
with semiconductor triodes. Izv. vys. ucheb. zav.; energ. no. 4:
7-12 Ap '58. (MIRA 11:6)

1. Laboratoriya upravlyayushchikh mashin i sistem AN SSSR.
(Electric circuit breakers)
(Transistors)